



Water-Data Report 2008

01409470 BATSTO RIVER AT QUAKER BRIDGE, NJ

MULLICA RIVER BASIN

LOCATION.--Lat 39°42'34", long 74°39'59" referenced to North American Datum of 1983, Washington Township, Burlington County, NJ, Hydrologic Unit 02040301, at Quaker Bridge on unimproved road, 1.1 miles south of Lower Forge, 1.9 mi downstream of Springers Brook, and 4.6 miles north of Batsto.

DRAINAGE AREA.--55.7 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1996-98, 2003-04, 2008.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Date	Discharge, in ft ³ /s
Dec 5, 2007	63.3
Mar 3, 2008	84.1
Sep 4, 2008	22.1

01409470 BATSTO RIVER AT QUAKER BRIDGE, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water Years 1975-78, 1995-98, 2008 to current year.

REMARKS.--Cooperative Network Site Descriptor: Watershed Integrator, NJ Department of Environmental Protection Watershed Management Area 14.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 3

[Remark codes: <, less than; E, estimated.]

Date	Time	Turbdty white light, det ang 90+-30 corrctd	UV absorb- ance, 254 nm, wat flt units	UV absorb- ance, 280 nm, wat flt units	Baro- metric pres- sure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfiltrd field, std units	Specif- ic conduc- tance, μS/cm (00400)	Temper- ature, wat unf 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)
Dec 05...	1020	1.0	3.0	.143	.111	761	11.5	89	5.6	86	2.5	4.5	18
Mar 03...	1000	84	.9	.172	.130	767	10.7	84	4.5	70	13.0	5.1	12
Jun 05...	1050	E96	6.3	.417	.327	760	7.5	79	5.5	53	20.5	17.9	10
Sep 04...	0930	22	3.0	.072	.059	759	8.4	85	5.1	26	27.5	16.0	4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 3

[Remark codes: <, less than; E, estimated.]

Date	Calcium water, filtrd, mg/L (00915)	Magnes- ium, water, filtrd, mg/L (00925)	Potas- sium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO ₃ (90410)	Chlor- ide, water, lab, mg/L (00940)	Fluor- ide, water, filtrd, mg/L (00950)	Silica, water, filtrd, mg/L as SiO ₂ (00955)	Sulfate water, filtrd, mg/L (00945)	Residue water, filtrd, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non- filter- able, mg/L (00530)	Ammonia + org-N, water, filtrd, mg/L as N (00623)
Dec 05...	3.93	2.11	1.74	6.27	E1.2	12.4	<.12	6.5	12.2	E48	55	2	.16
Mar 03...	2.67	1.38	1.06	5.00	<1.7	9.44	<.12	5.1	10.1	--	46	1	.16
Jun 05...	2.17	1.12	1.06	4.10	E5	7.91	<.12	4.7	5.11	E30	42	7	.25
Sep 04...	.84	.496	.58	2.26	E1.0	3.73	<.12	5.9	2.52	E18	28	1	<.14

01409470 BATSTO RIVER AT QUAKER BRIDGE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 3

[Remark codes: <, less than; E, estimated.]

Date	Nitrate	Partic-	Ortho-			Inor-			Organic			
	+ nitrite	ulate	Total	nitro-	phosphate,	Phos-	Phos-	Total	carbon,	carbon,	Organic	
Ammonia	water,	nitro-	nitro-	water,	water,	phorus,	phorus,	carbon,	suspnd	suspnd	carbon,	
water, filtrd, mg/L as N (00608)	water filtrd, mg/L as N (00631)	gen, susp, water, mg/L (49570)	gen, filtrd, mg/L (00602)	gen, unfiltrd (00600)	filtrd, mg/L (00671)	mg/L as P (00666)	mg/L as P (00665)	total, mg/L (00694)	suspdnt	suspdnt	total, mg/L (00689)	
Dec 05...	.034	.54	.07	.70	.77	E.004	<.008	.012	.8	<.04	.8	3.6
Mar 03...	.014	.49	.06	.65	.71	E.004	<.008	E.007	.3	<.04	.3	4.3
Jun 05...	.021	.19	.18	.44	.62	<.010	E.004	.039	3.0	<.04	3.0	8.8
Sep 04...	.016	.22	E.04	--	--	<.010	<.008	E.005	.7	<.04	.7	1.1
												7.1